



Compack Controller

Monitoring and Control Unit

SMALL WITH ALL

"All-in-one" plug-in controller. Comprehensive functionality in a small box designed for small range power systems.



Key Features

- ü LEDs for local visual alarming (Major, Minor, Power ON)
- ü Ethernet for remote or local monitoring and control via WEB Browser
- ü Ethernet port with HP Auto MDI/MDI-X for detection and correction for straight-through and crossover cables. Eliminates confusion whether to use straight cable or crossover between controller and PC
- ü SNMP protocol with TRAP, SET and GET on Ethernet. Email of TRAP alarms
- ü 3 programmable relay outputs for "traditional" remote monitoring.
- ü 3 programmable multipurpose inputs (temperature, "digital inputs" or analog signals)
- ü Comprehensive logging
- ü Automatic battery monitoring and test
- ü Battery lifetime indication
- ü Battery used and remaining capacity (Ah or %) monitoring
- ü User defined alarm grouping (boolean logic for grouped alarms)
- ü Uploading and Downloading of configuration files with PowerSuite (Windows™ application) or WEB Browser

Specifications	
Input Voltage	Tolerances: 17-75 VDC Shutdown: < 15 VDC
Temperature Range	Nominal: -20 to +60 C (-4 to 140 F) Reduced accuracy: -40 to +70 C
Power Consumption	3W
MTBF	> 550,000 hours Telcordia SR-332 Issue I, method III (a) (T _{ambient} : 25°C)
Dimensions (HxWxD) Weight	75 x 30 x 115mm / 2.95 x 1.2 x 4.52" 240g / 0.53 lbs
Ethernet port	10/100 BASE-T HP Auto MDI/MDI-X
Relay Outputs (1.5 mm ²)	Form-C (dry contact NO-C-NC) 60V / 1A breaking capacity
Configurable Inputs (1.5 mm ²)	"Digital": open/closed Analog: 0-75V Temperature: External NTC

See reverse side for specifications

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Additional Feature Information & Specifications

Remote Monitoring and Control

- ü **PC running PowerSuite**
Through a Windows™ based communication program installed on a remote computer the system can be monitored and controlled via Ethernet network (UDP "Tunneling")
- ü **PC running a WEB Browser**
Detailed web pages for monitoring, configuration, diagnostics and log access
- ü **NMS/OSS Platform via SNMP**
MIB file supplied for Network Management System (NMS) monitoring through Ethernet on SNMP v2c
- ü **Software upgrades / Network setup**
Via Ethernet port with EV Network Utilities application. DHCP assigned IP address is default enabled
- ü **email**
All TRAPs can also be sent as emails to two user specific email addresses

Data Logging

- ü **Event log**
Up to 10 000 events stored
- ü **Data log**
7 user selectable analogue or calculated time stamped values can be logged with configurable interval (normal and critical interval) up to 10 000 times
- ü **Energy log**
52 times back energy Wh (kWh) stored on hourly, daily and weekly basis. Rectifier or Solar Charger supplied and Load consumed
- ü **Battery temperature log**
Battery life time indication based on recorded temperature in 10 temperature ranges with multiplying factor for reduced lifetime
- ü **Battery test log**
Last 10 battery test results with test type, test duration [min], average discharge current [A], discharged capacity [Ah], test result quality [%] and detailed discharge curves with minute by minute current and voltage

Control Features

- Control System**
- o Output Voltage Measurement
 - o Load Current Calculation
 - o Energy Calculation
 - o Load/Battery Disconnect
 - o Real Time Clock with Battery Backup
 - o Stored Site Text/ID and Messages
 - o Position (long/lat) for auto placement
 - o Generator start/stop control setup
 - o Test of Relay Outputs
 - o Alarm grouping of events for relay outputs
 - o Boolean AND of alarm groups
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- Battery**
- o Battery Current Measurement
 - o Battery Temperature Measurement
 - o Battery Testing (acc. to discharge table or set time limit)
 - o Setup of Battery Data/Table
 - o Battery Capacity Indication
 - o Battery Boost Charging
 - o Auto – Ah discharge or voltage threshold
 - o Interval or Manual
 - o Temperature Compensated Charging
 - o Charge Current Limitation
 - o Battery Low Voltage Disconnect
 - o Temperature dependent (optional)
 - o Mains independent (optional)
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- Rectifier**
- o Available information about each rectifier, e.g. serial number, version, internal temperature
 - o Individual Rectifier Current Measurement
 - o Individual Rectifier Input Voltage
 - o Efficiency Management
 - o Emergency Voltage
 - o Startup delay
 - o Detailed internal alarms summary

Alarms / Events available

- Alarms can be set up with monitoring of minor and major levels. Hysteresis and time delay is user configurable. All average and peak levels on analogue values are auto logged.
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- Power & Control System**
- o AC Mains Low (2-level)
 - o AC Phase Voltage x3 (2-level)
 - o "Digital" Inputs (programmable descriptions)
 - o Events trigger by inputs
Service mode (block relays), Generator running, Lower charge current limit, Battery test, Boost inhibit, Emergency low voltage, Clear manual reset alarms.
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- Load**
- o Load Disconnect
 - o Voltage or Timer (from mains failure) based
 - o Mains independent (optional)
 - o Load Fuse
 - o Load Current
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- Battery**
- o Battery Voltage (4-level, optional 8-level)
 - o Battery Temperature (2-level)
 - o Battery Used Capacity (2-level) [Ah or %]
 - o Battery Remaining Capacity (2-level) [Ah or %]
 - o Battery Fuse
 - o *Symmetry Failure (2-level) – Only with BM Can Node*
 - o Battery Quality after test (2-level)
 - o Battery Current (4-level)
 - o Battery Life Time (2-level) [from temperature log]
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- Rectifier**
- o Rectifier Failure (2-level)
 - o Rectifier Capacity (2-level)
 - o Rectifier Current (2-level)
 - o Rectifier Avg. Temperature (2-level)
 - o Rectifier Current Share (2-level)

Specifications are subject to change without notice
242100.400.DS3- vB

Part no.	Description
242100.400	Compack